

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-000542**Date Inspected:** 18-Apr-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 0**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 12**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai

<b>Quality Control Contact:</b>	ABF Paint Supervisor William (Bill) B...			<b>Quality Control Present:</b>	<b>Yes</b>	<b>No</b>	
<b>Material transfer:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Sampled Items:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>Stock Transfer:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>OK to Cut:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>Rebar Test Witness:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Delayed/Cancelled:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>Other:</b>	Surface Preparation and Coatings Application						
<b>Bridge No:</b>	34-0006			<b>Component:</b>	OBG 2BE, 2AE		
<b>Bid Item:</b>	79, 80, 81			<b>Lot No:</b>	B226		

**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Donald Jordan arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following: Caltrans QA Coatings Inspectors received a Notice of Inspection to pull samples of new batches of coating from the warehouse to be sent to the various Caltrans labs for testing.

A meeting was held today between Caltrans staff, American Bridge/Fluor Enterprises, a JV (ABF) paint staff and management, International Paint representatives (IP) and Zhenhua Port Machinery Company, LTD (ZPMC) management to discuss the latest Interzinc 22 test results from the Caltrans lab showing one of the required parameters as failed. IP stated that they ran tests on the retained batch samples they keep at the manufacturing facility and the results came out as pass. ABF suggested that a joint testing of materials take place at the IP lab and the Caltrans lab. Caltrans Senior Onsite Structural Materials Representative Sang Le agreed to the request. Mr. Le requested that Caltrans QA Coatings Inspector Jordan pull samples from the warehouse to be shipped to IP for testing. The batch number of material that failed has already been applied to the OBG sections for this project. It was agreed that one of the new batches serve for the test.

Mr. Jordan pulled the samples and labeled the buckets attaching the Caltrans Form TL-101. Caltrans Structural Materials Representative (SMR) Andrew Ferng will be the Caltrans representative to witness the testing at both locations.

The following inspection were performed by Caltrans QA Coatings Inspector Jordan, American Bridge/Fluor Enterprises, a JV (ABF) QC Zhou Qun Song (Joe), ABF QC Shi Zhaoyuan (Stone), ABF QC Zhou Wei, International Paint Onsite Technical Services Engineer Peng Zi Li, Zhenhua Port Machinery Company, LTD

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(ZPMC) Production Manager Bevin Dong, ZPMC QC Manager Xia Yong, ZPMC QC Zhang Diang, ZPMC QC Dong Yao Fei and ZPMC QC Guo Wan Li.

OBG 2BE

Cure tests were performed according to the requirements in the Contract Special Provisions, the Approved As Noted Paint Quality Work Plan and the appropriate standards referenced in those documents. The Pencil Hardness test was acceptable. The Quarter Rub test was acceptable. The Solvent Rub (MEK Rub) test passed.

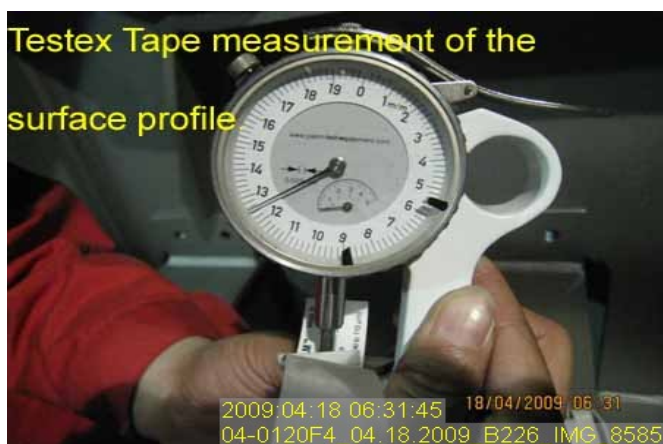
Adhesion Tests were performed. The dollies were pulled under the supervision of the above listed QA and QC personnel. The pull tests were acceptable. The results exceeded the contract requirement of 4Mpa minimum.

Dry Film Thickness readings (DFT's) were taken according to SSPC PA-2. The dft's were recorded by ZPMC QC personnel. Taking of the readings were not witnessed by Caltrans QA Coatings Inspectors and ABF QC personnel. Spot checks will be taken by Caltrans QA Coatings Inspectors at a later time. ABF has not given the final approval of the coating application.

Dollies were glued into place on the primed exterior surface. The dollies will be pulled to determine the adhesion strength of the coating.

OBG 2AE

Caltrans QA Coatings Inspectors received a Notice of Inspection for to attend a joint inspection with ABF and ZPMC QC for the degreasing and chlorides testing of OBG 2AE. The tests and visual inspection were acceptable to allow the unit to be abrasive blasted.



### Summary of Conversations:

There were no relevant conversations on this date.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mazen Wahbeh (China) +8613472477571, who represents the Office of Structural Materials for your project.

<b>Inspected By:</b>	Jordan,Don	Quality Assurance Inspector
<b>Reviewed By:</b>	Carreon,Albert	QA Reviewer